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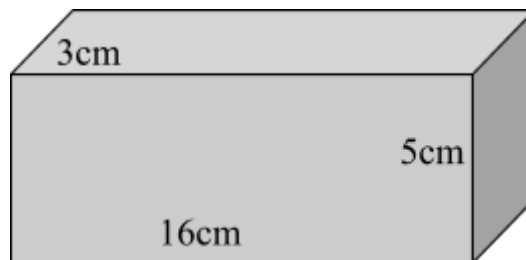
Grade 7: Math

3.4 Measurement: Volume

We will be focussing on finding the volumes of rectangular prisms.

$$\text{Volume} = L \times b \times h$$

- **Example 1:** Find the volume of the rectangular prism

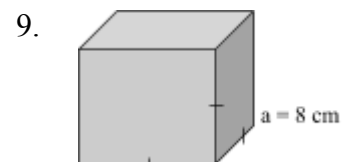
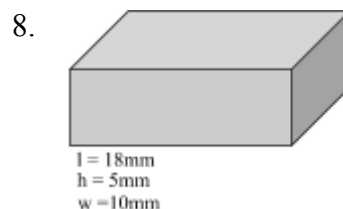
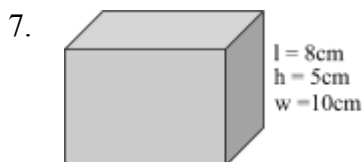
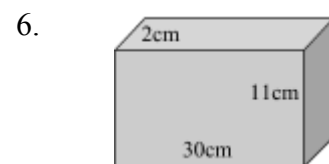
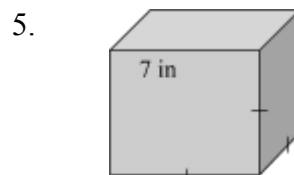
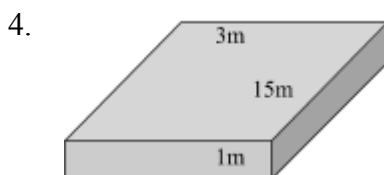
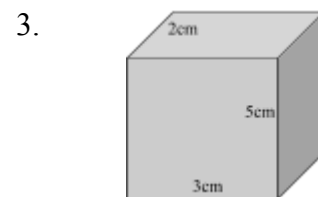
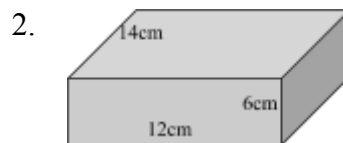
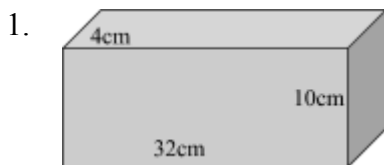


- **Solution:**
- **Step 1:** Write down all information that is given in the problem.
- **Step 2:** Write down the relevant formula.
- **Step 3:** Substitute the known values.
- **Step 4:** Check your units and write a “therefore” statement.
- **Example 2:** Find the volume of the rectangular prism of dimensions 12mm×5mm×4mm.

- **Example 3:** A rectangular container is to be filled with 1L of water. If the dimensions of the base is $8\text{cm} \times 5\text{cm}$, what should be the minimum height of the container?

Solution:

- **Step 1:** Write down all information that is given.
- **Step 2:** Identify the unknown and write a “Let” statement.
- **Step 3:** Write down the relevant formula
- **Step 4:** Solve the equation.
- **Step 5 :** Check your units and write a “therefore” statement.
- Draw nets and find the surface area of the rectangular prisms shown below.



- Homework: Please complete questions 1, 2, 4, 5, 6, 8 on page 102-103 from the textbook and complete this handout.